



2017 | NIH FUTURE RESEARCH LEADERS CONFERENCE

September 12-14



National Institutes of Health | Bethesda, MD

TUESDAY, SEPTEMBER 12

8:00–8:45 a.m.

REGISTRATION AND MEET & GREET

FAES Terrace, Bldg. 10

8:45–9:00 a.m.

INTRODUCTION AND LOGISTICS

Lipsett Auditorium, Bldg. 10

Janetta Lun, PhD – Senior Behavioral Scientist, Scientific Workforce Diversity

9:00–9:15 a.m.

WELCOME REMARKS

Lipsett Auditorium, Bldg. 10

Hannah Valantine, MD, MRCP, FACC – NIH Chief Officer for Scientific Workforce Diversity

9:15–10:15 a.m.

INSIDE THE NIH INTRAMURAL RESEARCH PROGRAM (IRP)

Lipsett Auditorium, Bldg. 10

PART I | AN OVERVIEW OF THE IRP

Michael Gottesman, MD – NIH Deputy Director for Intramural Research

PART II | THE IRP TENURE TRACK

Roland Owens, PhD – Assistant Director, Office of Intramural Research (OIR)

Charles Dearolf, PhD – Assistant Director, OIR

10:15–10:30 a.m.

REMARKS FROM THE NIH DIRECTOR

Lipsett Auditorium, Bldg. 10

Francis Collins, MD, PhD – NIH Director

10:30–11:00 a.m.

BREAK

11:00–12:00 p.m.

PLENARY PRESENTATION

Lipsett Auditorium, Bldg. 10

Eliseo J. Pérez-Stable, MD – Director, National Institute on Minority Health and Health Disparities

12:00–1:00 p.m.

LUNCH (on your own)



TUESDAY, SEPTEMBER 12 (Con't)

1:15–2:45 p.m.

FUTURE RESEARCH LEADERS SCIENTIFIC PRESENTATIONS I
(Concurrent Sessions)

SESSION IA | HEALTHCARE DISPARITIES: TYPE 2 DIABETES & BREAST CANCER

FAES Classroom 3, Bldg. 10

The Role of Modifiable Lifestyle Factors and the Renin-Angiotensin-Aldosterone System in Diabetes Among African Americans

Joshua J. Joseph, MD

Type 2 Diabetes Prevention and Management: A Multi-Generational Intervention for American Indian and Alaska Native Families

Lisa Scarton, PhD

Using Community-Based System Dynamics and Storytelling to Improve Breast Cancer Outcomes: Overarching Conceptual Framework

Faustine Williams, PhD, MPH, MS

"Feeding" Young African American Breast Cancer Survivors with a Quality of Life Intervention

Timiya S. Nolan, PhD, RN, ANP-BC

Development of multi-scale analysis methods to understand role of extranuclear initiated estrogen receptor in metabolic disease and breast cancer

Zeynep Madak-Erdogan, PhD

SESSION IB | DEVELOPMENT & DISEASE: GENOMIC & COMPUTATIONAL APPROACHES

FAES Classroom 6, Bldg. 10

Transcriptional Dynamics of Single-Cell Regeneration in *Stentor coeruleus*

Pranidhi Sood, PhD

Computational modeling of embryonic lung branching

Uduak George, PhD

High-throughput and full-length characterization of transcript isoforms to investigate cancer-associated mutations

Angela Brooks, PhD

Disruption of Epigenetic Drivers in MYC-Addicted T-ALL

Daniel Liefwalker, PhD

Uncovering the Genetic Causes of Keloid Formation

Donald Glass II, MD, PhD



TUESDAY, SEPTEMBER 12 (Con't)

1:15—2:45 p.m.

**FUTURE RESEARCH LEADERS SCIENTIFIC PRESENTATIONS I
(Concurrent Sessions, cont.)**

SESSION IC | CELL SIGNALING & EPIGENETICS

FAES Classroom 7, Bldg. 10

A far-red fluorescent protein evolved from a cyanobacterial phycobiliprotein
Erik Rodriguez, PhD

The Role of Proline-Glycine-Proline in Cardiac Allograft Vasculopathy and
Acute Rejection
Gregory A. Payne, MD, PhD

The LIN28-let-7-IGF2BP axis regulates fetal hemoglobin in humans
Jaira Ferreira de Vasconcellos, PhD

Distinct Histone Post-Translational Modifications Are Connected To
Neurodegenerative Disease Proteinopathies
Mariana P. Torrente, PhD

Methylome changes in sorted cord blood CD4+ cells associated with
prenatal tobacco smoke exposure
Caitlin Howe, PhD

2:45—3:00 p.m.

BREAK

3:00—4:30 p.m.

**FUTURE RESEARCH LEADERS SCIENTIFIC PRESENTATIONS II
(Concurrent Sessions)**

SESSION IIA | HEALTHCARE DISPARITIES: ISSUES OF ACCESS & RISKS

FAES Classroom 3, Bldg. 10

Surgical delays in melanoma associated with insurance type
Adewole Adamson, MD, MPP

Impact of Cumulative Risk on Homelessness for Youth Exiting Foster Care:
Finding from the National Youth in Transitions Database
Dana Prince, PhD, MPH

Marijuana and Tobacco Co-Use among African American Young Adults
LaTrice Montgomery, PhD

Sexual Healthcare Access among Adolescent Latinas in Alabama:
Challenges and Opportunities for Health Promotion
Mercedes M. Morales-Aleman, PhD

Maternal Factors Associated with Dental caries in Urban Latino Children
Tamanna Tiwari, MPH, MDS, BDS



TUESDAY, SEPTEMBER 12 (Con't)

3:00—4:30 p.m.

FUTURE RESEARCH LEADERS SCIENTIFIC PRESENTATIONS II
(Concurrent Sessions, cont.)

SESSION IIB | MICROBIAL PATHOGENESIS & INFECTIOUS DISEASE

FAES Classroom 6, Bldg. 10

Methicillin-resistant *Staphylococcus aureus* pathogenicity causes sustained lymphatic dysfunction

Dennis Jones, PhD

How *Cryptococcus neoformans* crosses cellular barriers

Felipe H. Santiago, PhD

Performance of machine-learning methods using electronic medical records to detect and predict a clinical infection

Milena Gianfrancesco, PhD, MPH

Breaking the Sugar Code of HIV Persistence

Mohamed Abdel-Mohsen, PhD

Caspase activation simultaneous to non-canonical necroptosis promotes inflammation during bacterial pneumonia

Norberto Gonzalez-Juarbe, PhD

SESSION IIC | CARDIOVASCULAR & NEURAL DISORDERS: NEW APPROACHES

FAES Classroom 7, Bldg. 10

Ferumoxytol Enhanced Magnetic Resonance Imaging for Patient-Specific Cardiovascular Applications

Kim-Lien Nguyen, MD

Using pharmacogenomic genotyping data to define genetic ancestry in patients and enable population-specific pharmacogenomic implementation

Wendy Hernandez, MS, PhD

Understanding Social Motivation and Attention in Females with Autism Spectrum Disorder

Clare Harrop, PhD

The effect of experimental reduction of pain catastrophizing on pain perception, nociceptive flexion reflex, and temporal summation of the nociceptive flexion reflex as verified by mediation analyses

Ellen Terry, PhD

6:30—8:00 p.m.

SMALL GROUP NETWORKING DINNER

**See individual meeting schedule for more information*



WEDNESDAY, SEPTEMBER 13

8:00—9:00 a.m.

NETWORKING MEET & GREET

Building 40, Room 1201/1203

9:00—3:00 p.m.*

ONE-ON-ONE MEETINGS WITH NIH SCIENTIFIC PERSONNEL

**See individual meeting schedule for more information*

9:00—4:30 p.m.*

NIH RESEARCH FESTIVAL

**See Research Festival schedule of events*

12:00—1:30 p.m.

INSIDE THE NIH INTRAMURAL RESEARCH PROGRAM (IRP)

Building 40, Room 1201/1203. For FRLC presenters only.

PART III | NAVIGATING IRP TENURE TRACK: A PANEL DISCUSSION

Carl Hashimoto, PhD – Senior Advisor, Scientific Workforce Diversity & Office of Intramural Research

Courtney Fitzhugh, MD – Lasker Clinical Research Scholar, National Heart, Lung, and Blood Institute

Chandra L. Jackson, PhD – Stadtman Tenure-track Investigator, National Institute of Environmental Health Sciences

Aleksandra Nita-Lazar, PhD – Tenure-track Investigator, National Institute of Allergy and Infectious Diseases

Douglas Stewart, PhD – Stadtman Tenure-track Investigator, National Cancer Institute, Division of Cancer Epidemiology & Genetics

3:30—5:00 p.m.

FRLC POSTER SESSION | RESEARCH FESTIVAL POSTER SESSION

FAES Terrace, Bldg. 10

**See FRLC Poster Session schedule for more information*

5:00—7:00 p.m.

NETWORKING HOUR

Lawton Chiles International House (Stone House), Bldg. 16



THURSDAY, SEPTEMBER 14

8:30—12:30 p.m. INTRODUCTION TO THE NIH GRANTS PROCESS AND FUNDING OPPORTUNITIES

Building 40, Room 1201/1203. For FRLC presenters only.

8:45—10:00 a.m. *NIH Grant 101*

Melissa Green Parker, PhD – Program Officer, Center for Translation Research & Implementation Science, National Heart, Lung, and Blood Institute

10:00—11:15 a.m. *NIH Grants Review Process*

Anna Riley, PhD – Scientific Review Officer, Division of AIDS, Behavioral and Population Sciences, Center for Scientific Review

11:15—11:30a.m. *BREAK*

11:30—12:30 p.m. *Breakout Sessions—Group Discussion facilitated by NIH Program Staff*

12:30—1:00 p.m. GROUP PHOTO & SEND-OFF

9:00—5:00 p.m.* ADDITIONAL ONE-ON-ONE MEETINGS WITH NIH SCIENTIFIC PERSONNEL

**See individual meeting schedule for more information*

9:00—5:00 p.m.* NIH RESEARCH FESTIVAL

**See Research Festival schedule of events*